Attorney Docket: 612,404-432

## LISTING OF THE CLAIMS:

The listing of claims shown below represents the currently pending claims in this application:

Claim 1 (Currently Amended) A device for effecting the photoelectric transport of charged materials in a liquid environment, comprising:

a <u>photo-activatable</u> substrate having a first face and a second face, the <u>photo-activatable</u> substrate capable of generating a photocurrent;

a conductor contacting at least a portion of the first face of the substrate;

a permeation layer supported on the second face;

attachment entities coupled to the <u>first face of the photo-activatable substrate</u> permeation layer;

a liquid in contact with the <u>first face of the photo-activatable substrate</u> <del>permeation</del> layer;

an electrode in contact with the liquid; and

a light source disposed to illuminate at least a portion of the substrate, thereby to induce a current within the device.

Claim 2 (Original) The device of claim 1, wherein the substrate is adapted to generate a photo-current.

Claim 3 (Original) The device of claim 1, wherein the substrate is adapted to generate a photo electrochemical current.

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Claims 4-16 (Canceled)

Claim 17 (Currently Amended) The device of claim 1, further comprising a <u>counter</u> reference electrode adapted to contact the liquid environment in contact with the device.

Claims 18-20 (Canceled)

Claim 21 (New) The device of claim 1 wherein the light source is a spatial light activation light source.